



FOOD INGREDIENTS

CATALOGUE



The ECSA Group is a fourth generation family firm. The Group includes the **ECSA Chemicals**, **ECSA Maintenance** and **ECSA Energy** with headquarters based in **Balerna (Ticino)** and **Flawil (St. Gallen)**, the sister company **ECSA Italia** based in **Desio (Milan)** and since 2012 **Porta Ticino Easy Stop SA**.

□ FLAWIL



□ BALERNA



□ DESIO



ECSA is today the largest Swiss owned company in the chemical distribution, specialising in following segments: Cosmetics, Pharmaceuticals, Food, Non-Essential Products & Feed, Flavours and Fragrances, Metal treatment, Water treatment, Detergents, Reagents, Paints feedstock, Textiles and Leather, Rubber and Plastics, Base chemicals.



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PRESERVATIVES AND ACIDITY REGULATORS

NAME	E-NUM	FUNCTION
Potassium sorbate	E202	Preservative
Calcium sorbate	E203	Preservative
Benzoic acid	E210	Preservative
Sodium benzoate	E211	Preservative
Sulphur dioxide	E220	Preservative
Sodium sulphite (Na ₂ SO ₃)	E221	Preservative
Sodium hydrogen sulphite (Sodium bisulphite, NaHSO ₃)	E222	Preservative
Sodium metabisulphite (Sodium pyrosulphite, Na ₂ S ₂ O ₅)	E223	Preservative
Potassium metabisulphite	E224	Preservative
Nisin	E234	Preservative
Natamycin (Pimaricin)	E235	Preservative
Sodium nitrate	E251	Preservative
Potassium nitrate	E252	Preservative
Acetic acid	E260	Preservative, acidity regulator
Potassium acetate	E261	Preservative, acidity regulator
Sodium acetate	E262	Preservative, acidity regulator
Calcium acetate	E263	Preservative, acidity regulator
Lactic acid	E270	Preservative, antioxidants, acid
Propionic acid	E280	Preservative
Sodium propionate	E281	Preservative
Calcium propionate	E282	Preservative
Potassium propionate	E283	Preservative
Malic acid	E296	Acidity regulator, acid
Fumaric acid	E297	Acidity regulator



ANTIOXIDANTS AND ACIDITY REGULATORS

NAME	E-NUM	FUNCTION
Ascorbic acid (Vitamin C)	E300	Antioxidant
Sodium ascorbate	E301	Antioxidant
Calcium ascorbate	E302	Antioxidant
Ascorbyl palmitate	E304	Antioxidant
Tocopherol-rich extract (natural)	E306	Antioxidant
Alpha - tocopherol (synthetic)	E307	Antioxidant
Gamma - tocopherol (synthetic)	E308	Antioxidant
Delta - tocopherol (synthetic)	E309	Antioxidant
Erythorbic acid	E315	Antioxidant
Sodium erythorbate	E316	Antioxidant
tert-Butylhydroquinone (TBHQ)	E319	Antioxidant
Butylated hydroxyanisole (BHA)	E320	Antioxidant
Butylated hydroxytoluene (BHT)	E321	Antioxidant
Sodium lactate	E325	Acidity regulator
Potassium lactate	E326	Acidity regulator
Calcium lactate	E327	Acidity regulator
Citric acid	E330	Acidity regulator, acid
Monosodium citrate	E331(i)	Acidity regulator
Trisodium citrate	E331(iii)	Acidity regulator
Tripotassium citrate	E332(ii)	Acidity regulator
Tricalcium citrate	E333(iii)	Acidity regulator, firming agent, sequestrant
Tartaric acid (L(+)-)	E334	Acid
Monopotassium tartrate (Cream of tartar)	E336(i)	Acidity regulator
Dipotassium tartrate	E336(ii)	Acidity regulator
Sodium potassium tartrate (Seignette salt, Rochelle salt)	E337	Acidity regulator
Phosphoric acid	E338	Acid
Monosodium phosphate	E339(i)	Antioxidant

NAME	E-NUM	FUNCTION
Disodium phosphate	E339(ii)	Antioxidant
Trisodium phosphate	E339(iii)	Antioxidant
Monopotassium phosphate	E340(i)	Antioxidant
Dipotassium phosphate	E340(ii)	Antioxidant
Tripotassium phosphate	E340(iii)	Antioxidant
Monocalcium phosphate	E341(i)	Anti-caking agent, firming agent
Dicalcium phosphate	E341(ii)	Anti-caking agent, firming agent
Tricalcium phosphate	E341(iii)	Anti-caking agent, firming agent
Magnesium citrate	E345	Acidity regulator
Metatartaric acid	E353	Emulsifier
Niacin (nicotinic acid, Vitamin B3, Vitamin PP)	E375	Colour retention agent
Nicotinamide	E375	Colour retention agent
Triammonium citrate	E380	Acidity regulator
Calcium disodium ethylene diamine tetraacetate (calcium disodium EDTA)	E385	Sequestrant



VITAMINS

NAME	E-NUM	FUNCTION
Beta-carotene	E160a (ii)	Pure 96-101%
Beta-carotene	E160a (ii)	CWD 1%, 10%, 20%
Beta-carotene	E160a (ii)	Oil suspension 20%, 30%
Calcium ascorbate	E302	Antioxidant
Sodium ascorbate	E301	Antioxidant
Vitamin A acetate		1.0, 1.5 mIU/g, oil Forms
Vitamin A acetate		250, 325 CWS, powder forms
Vitamin A palmitate		1.0, 1.7 mIU/g, oil Forms
Vitamin A palmitate (250 CWS, powder forms)		250 CWS, powder forms
Vitamin B2 (Riboflavine)	E101	
Vitamin B1 (Thiamine)		
Vitamin B3 (Niacin - Nicotinic acid, Niacina-mide)		
Vitamin B5 (D-Panthenol , Pantothenic acid, pantothenate)		
Vitamin B6 (Pyridoxine)		
Vitamin B7 (Biotine)		
Vitamin B9 (Folic acid)		0.1%, 1%, 100%
Vitamin B12 (Cobalamin)		Antioxidant
Vitamin C (ascorbic acid)	E300	
Vitamina C coated		2.0 mIU/g, oil form
Vitamin D2 (ergocalciferol)		100 CWS, powder form
Vitamin D2 (ergocalciferol)		1.0 mIU/g, oil form
Vitamin D3 (cholecalciferol)		100 CWS, powder form
Vitamin D3 (cholecalciferol)		30, 50%
Vitamin E natural, D-alpha tocopherol acetate		96% min, oil
Vitamin E natural, Mixed Tocopherols oil		Powder 700IU, oil 1100IU/1360IU
Vitamin E natural, Mixed Tocopherols powder		50, 70, 90%





NAME	E-NUM	FUNCTION
Vitamin E Synthetic, DL-alpha tocopherol acetate		CWS powder
Vitamin E Synthetic, DL-alpha tocopherol acetate 50%		

SWEETENERS

NAME	E-NUM	FUNCTION
Sorbitol	E420(i)	sweetener, emulsifier, humectant
Sorbitol syrup	E420(ii)	sweetener, emulsifier, humectant
Mannitol	E421	sweetener, anti-caking agent
Acesulfame-K	E950	sweetener
Aspartame	E951	sweetener
Sodium cyclamate	E952	sweetener
Isomalt	E953	sweetener
Sodium Saccharin	E954	sweetener
Sucralose (Trichlorogalactosucrose)	E955	sweetener
Neohesperidine DC (Dihydrochalcone)	E959	sweetener
Stevioside	E960	sweetener
Maltitol	E965(i)	sweetener, stabiliser, humectant
Maltitol syrup	E965(ii)	sweetener, stabiliser, humectant
Lactitol	E966	sweetener
Xylitol	E967	sweetener
Erythritol	E968	sweetener, humectant
Dextrose		
Fructose		
Lactose		

STARCH AND DERIVATIVES

NAME	E-NUM	FUNCTION
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NATIVE STARCHES

Corn		
Potatoes		
Rice		
Tapioca		
Waxy corn		
Wheat		

MODIFIED STARCHES

Acid-treated starch	E1401	thickening agent, stabiliser
Oxidized starch	E1404	thickening agent, stabiliser
Distarch phosphate	E1412	thickening agent, stabiliser
Acetylated distarch phosphate	E1414	thickening agent, emulsifier
Starch acetate esterified with acetic anhydride	E1420	thickening agent, stabiliser
Acetylated distarch adipate	E1422	thickening agent, stabiliser
Hydroxy propyl starch	E1440	thickening agent, emulsifier
Hydroxy propyl distarch phosphate	E1442	thickening agent, stabiliser
Starch sodium octenyl succinate	E1450	thickening agent, stabiliser, emulsifier

CARBOHYDRATE - SACCHARIDE (MONO-, DI-, POLY-)

Dextrose monohydrate		
Dextrose anhydrous		
Fructose crystalline		
Glucose dried syrup (DE30-DE40)		
Glucose syrup		
Bio Glucose syrup		
Lactose		
Maltodextrin (DE5-20)		
Polydextrose	E1200	stabiliser, thickening agent, humectant, carrier



NAME	E-NUM	FUNCTION
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POLYOL POWDER

Sorbitol	E420	Sweetener, emulsifier, humectant
Mannitol	E421	Sweetener, anti-caking agent
Isomalt	E953	Sweetener
Maltitol	E965	Sweetener, stabiliser, humectant
Xylitol	E967	Sweetener
Erythritol	E968	Sweetener, humectant

POLYOL SYRUP

Sorbitol	E420	Sweetener, emulsifier, humectant
Maltitol	E965	Sweetener, stabiliser, humectant

PROTEINS

Gluten		
Bio Gluten		

FIBERS

NAME	E-NUM	FUNCTION
Bamboo Fiber		
Inulin		
Wheat Fiber		

ENZYMES

NAME	E-NUM	FUNCTION
Bakery Enzymes		Amylase – hemicellulases – lipase – Protease – Gluco-Oxidase – bacterial amylase
Brewing enzymes		
Fruit/ Vegetables enzymes		Pectinase – amylase
Wine enzymes		

DRY FRUITS

NAME	E-NUM	FUNCTION
Ananas		
Apple		
Papaya		
Sultana		

OIL SEEDS AND LEGUMES

NAME	E-NUM	FUNCTION
Beans		
Blue poppy seed		
Flax seed		
Lentils		
Peas		
Sesame seed		
Sunflower seed kernel		

NUTS AND ALMONDS

NAME	E-NUM	FUNCTION
Almond		
Hazelnut		
Pistachio		
Walnut		

MILK DERIVATES

NAME	E-NUM	FUNCTION
Full Cream milk powder		
Milk protein		
Milk replacers		
Skimmed milk powder		



HUMECTANTS

NAME	E-NUM	FUNCTION
Sorbitol	E420	humectant, sweetener, emulsifier
Glycerol (86.5%, 99.5%)	E422	humectant, sweetener, emulsifier
Maltitol	E965	sweetener, stabiliser, humectant
Glyceryl triacetate (triacetin)	E1518	humectant
Propylene glycol	E1520	humectant

FLAVOUR SOLVENT

NAME	E-NUM	FUNCTION
Ethyl acetate	E1504	flavour solvent
Glyceryl monoacetate	E1516	flavour solvent
Glyceryl diacetate (diacetin)	E1517	flavour solvent
MCT-oil (Medium-chain triglycerides)		flavour solvent

FLAVOUR ENHANCERS

NAME	E-NUM	FUNCTION
Glutamic acid	E620	Flavour enhancer
Monosodium glutamate (MSG)	E621	Flavour enhancer
Disodium 5'-guanylate (GMP)	E627	Flavour enhancer
Disodium 5'-inosinate (IMP)	E631	Flavour enhancer
Disodium 5'-ribonucleotides (I+G)	E635	Flavour enhancer
Maltol	E636	Flavour enhancer
Ethylmaltol	E637	Flavour enhancer
Glycine	E640	Flavour enhancer

AROMA

NAME	E-NUM	FUNCTION
Anethol		
C14 Aldehyde		
C18 Aldehyde		
D-Limonene		
Ethyl butyrate		
Ethyl maltol		
Ethylvanillin		
Eucalyptol (99.5%)		
Eugenol		
Maltol		
Menthol		
Orangene terpenes		
Raspberry Ketone		
Strawberry furanone		
Strawberry Ketone (Furanone)		
Vanillin		

ESSENTIALS OIL

NAME	E-NUM	FUNCTION
Citronella oil		
Clove oil (leaf, bud)		
DMO oil 50% (arvensis)		
Eucalyptus citriodora oil		
Eucalyptus oil (globulus 80/85%)		
Garlic oil		
Ginger oil		
Lemon oil		



NAME	E-NUM	FUNCTION
Litsea Cubeba oil		
Nutmeg oil		
Orange oil		
Paprika oil		
Pepper oil (black)		
Peppermint oil (piperita)		
Star anis seed oil		
Spearmint oil (60, 80%)		

SPICE EXTRACTS & OLEORESINS

NAME	E-NUM	FUNCTION
Black Pepper		
Capsicum		
Cassia		
Cinnamon		
Clove Bud		
Garlic		
Ginger		
Mustard		
Nutmeg		
Paprika		
Pimento		
Rosemary		
Tamarind		
Turmeric		
White Pepper		

COLOURS

NAME	E-NUM	FUNCTION
Curcumin / Natural Colours	E100	Yellow-orange
Riboflavin, / Natural Colours	E101(i)	Yellow-orange
Riboflavin-5-Phosphate / Natural Colours	E101(ii)	Yellow-orange
Tartrazine / Synthetic	E102	Lemon yellow
Quinoline-Yellow / Synthetic	E104	Dull or greenish yellow
Riboflavin-5'-phosphate, sodium salt / Natural Colours	E106	Yellow
Sunset-Yellow / Synthetic	E110	Yellow-orange
Carminic acid / Natural Colours	E120	Crimson
Carmoisine / Synthetic	E122	Red to maroon
Amaranth / Synthetic	E123	Dark red
Ponceau / Synthetic	E124	Red
Erythrosine / Synthetic	E127	Red
Allura red / Synthetic	E129	Red
Patent-Blue / Synthetic	E131	Dark blue
Indigo carmine / Synthetic	E132	Blue
Brilliant-Blue / Synthetic	E133	Blue
Chlorophylls and Chlorophyllins / Natural Colours	E140	Green
Copper-Chlorophyllin / Natural Colours	E141	Green
Green S / Synthetic	E142	Green
Plain Caramel / Natural Colours	E150a	Brown
Caustic sulphite caramel / Natural Colours	E150b	Brown
Ammonia caramel / Natural Colours	E150c	Brown
Sulphite ammonia caramel / Natural Colours	E150d	Brown
Brilliant-Black / Synthetic	E151	Black
Vegetable-Carbon / Natural Colours	E153	Black
Braun FK / Synthetic	E154	Brown
Brown / Synthetic	E155	Brown



NAME	E-NUM	FUNCTION
Carotene / Natural Colours	E160a	Yellow-orange to brown
Annatto / Natural Colours	E160b	Orange-red to yellow
Paprica oleoresin / Natural Colours	E160c	Red
Lycopene / Natural Colours	E160d	Bright to deep red
Apocarotenal / Natural Colours	E160e	Orange-red to yellow
Lutein / Natural Colours	E161b	Orange-red to yellow
Betanin, Beetrot Red / Natural Colours	E162	Red
Anthocyanins / Natural Colours	E163	Red, green or purple, pH dependent
Calcium carbonat / Natural Colours	E170(i)	White
Calcium hydrogen carbonate / Natural Colours	E170(ii)	White
Titanium -Dioxide / Natural Colours	E171	White
Iron oxides / Natural Colours	E172	Black, Brown, Red, Yellow
Lithol Rubine / Natural Colours	E180	Red
Aronia / Natural Ingredients		Red
Beetroot / Natural Ingredients		Red
Black carrot / Natural Ingredients		Red
Carrot / Natural Ingredients		Yellow-orange
Carthamus / Natural Ingredients		Yellow
Elderberry / Natural Ingredients		Red
Hibiscus / Natural Ingredients		Red
Paprica / Natural Ingredients		Orange
Spinach / Natural Ingredients		Green

GLAZING AGENTS

NAME	E-NUM	FUNCTION
Bees wax, white and yellow	E901	Glazing agent
Candelilla wax	E902	Glazing agent
Carnauba wax	E903	Glazing agent
Shellac	E904	Glazing agent
Lanolin, sheep wool grease	E913	Glazing agent

EMULSIFIERS, STABILISERS, THICKENERS AND GELLING AGENTS

NAME	E-NUM	FUNCTION
Sodium alginate	E401	emulsifier, thickener, stabiliser, gelling agent
Agar Agar	E406	stabiliser, thickener, gelling agent
Carrageenan	E407	emulsifier, thickener, stabiliser, gelling agent
Locust bean gum (Carob gum)	E410	emulsifier, thickener, stabiliser, gelling agent
Guar gum	E412	stabiliser, thickener
Acacia gum (gum arabic)	E414	emulsifier, thickener, stabiliser
Xanthan gum	E415	stabiliser, thickener
Karaya gum	E416	emulsifier, thickener, stabiliser
Tara gum	E417	stabiliser, thickener
Gellan gum	E418	emulsifier, thickener, stabiliser
Sorbitol	E420	humectant, emulsifier, sweetener
Mannitol	E421	sweetener, anti-caking agent
Glycerol	E422	sweetener, emulsifier, humectant
Polyoxyethylene sorbitan monolaurate (polysorbate 20)	E432	emulsifier
Polyoxyethylene sorbitan monooleate (polysorbate 80)	E433	emulsifier
Sodium polyphosphate - Sodium Hexametaphosphate, SHMP	E452(i)	emulsifier
Methylcellulose	E461	emulsifier
Ethylcellulose	E462	emulsifier
Hydroxypropyl cellulose	E463	emulsifier



NAME	E-NUM	FUNCTION
Hydroxypropyl methyl cellulose	E464	emulsifier
Ethyl methyl cellulose	E465	emulsifier
Calcium stearate	E470a	emulsifier, anti-caking agent
Potassium stearate	E470a	emulsifier, anti-caking agent
Sodium stearate	E470a	emulsifier, anti-caking agent
Magnesium stearate	E470b	emulsifier, anti-caking agent
Glycerylmonostearate	E471	emulsifier
Polyoxyethylene sorbitan monopalmitate (polysorbate 40)	E434	emulsifier
Polyoxyethylene sorbitan monostearate (polysorbate 60)	E435	emulsifier
Polyoxyethylene sorbitan tristearate (polysorbate 65)	E436	emulsifier
Disodium diphosphate - Sodium Acid Pyrophosphate, SAPP	E450(i)	emulsifier
Tetrasodium diphosphate - Tetrasodium Pyrophosphate, TSPP	E450(iii)	emulsifier
Tetrapotassium diphosphate - Tetrapotassium Pyrophosphate, TKPA	E450(v)	emulsifier
Pentasodium triphosphate - Sodium Tripolyphosphate; STPP	E451(i)	emulsifier

PHOSPHATES

NAME	E-NUM	FUNCTION
Phosphoric acid	E338	acid
Monosodium phosphate	E339(i)	antioxidant
Disodium phosphate	E339(ii)	antioxidant
Trisodium phosphate	E339(iii)	antioxidant
Monopotassium phosphate	E340(i)	antioxidant
Dipotassium phosphate	E340(ii)	antioxidant
Tripotassium phosphate	E340(iii)	antioxidant
Monocalcium phosphate	E341(i)	anti-caking agent, firming agent
Dicalcium phosphate	E341(ii)	anti-caking agent, firming agent
Tricalcium phosphate	E341(iii)	anti-caking agent, firming agent
Disodium diphosphate - Sodium Acid Pyrophosphate, SAPP	E450(i)	

NAME	E-NUM	FUNCTION
Tetrasodium diphosphate - Tetrasodium Pyrophosphate, TSP	E450(iii)	emulsifier
Tetrapotassium diphosphate - Tetrapotassium Pyrophosphate, TKPA	E450(v)	emulsifier
Pentasodium triphosphate - Sodium Tripolyphosphate; STPP	E451(i)	emulsifier
Sodium polyphosphate - Sodium Hexametaphosphate, SHMP	E452(i)	emulsifier

ACID, ACIDITY REGULATORS, ANTI-CAKING AGENTS, BULKING AGENTS, SEQUESTRANTS, FIRMING AGENTS, RAISING AGENTS, ANTI-FOAMING AGENTS

NAME	E-NUM	FUNCTION
Calcium carbonate	E170(i)	food colouring
Sodium carbonate	E500(i)	raising agent, acidity regulator
Sodium hydrogen carbonate	E500(ii)	raising agent, acidity regulator
Potassium carbonate	E501(i)	acidity regulator
Potassium hydrogen carbonate	E501(ii)	acidity regulator
Ammonium carbonate	E503(i)	acidity regulator
Ammonium hydrogen carbonate	E503(ii)	acidity regulator
Magnesium carbonate	E504(i)	acidity regulator, anti-caking agent
Magnesium hydroxide carbonate	E504(ii)	acidity regulator, anti-caking agent
Hydrochloric acid	E507	acid
Potassium chloride	E508	seasoning, gelling agent
Calcium chloride (dihydrate, anhydrous)	E509	firming agent, sequestrant
Magnesium chloride (hexahydrate, 4,5 Hydrate)	E511	firming agent
Sulphuric acid	E513	acid
Sodium sulphate	E514(i)	acidity regulator
Sodium hydrogen sulphate	E514(ii)	acidity regulator
Potassium sulphate	E515(i)	seasoning
Potassium hydrogen sulphate	E515(ii)	seasoning
Calcium sulphate	E516	sequestrant, anti-caking agent, firming agent
Ammonium sulphate	E517	improving agent



NAME	E-NUM	FUNCTION
Magnesium oxide	E530	acidity regulator, anti-caking agent
Sodium silicate	E550(i)	anti-caking agent
Sodium metasilicate	E550(ii)	anti-caking agent
Silicon dioxide (silica)	E551	anti-caking agent
Talc	E553b	anti-caking agent
Sodium aluminosilicate	E554	anti-caking agent
Bentonite	E558	anti-caking agent
Aluminium silicate (Kaolin)	E559	anti-caking agent
Stearic acid (Fatty acids)	E570	anti-caking agent
Calcium stearate	E572	emulsifier, anti-caking agent
Magnesium stearate	E572	anti-caking agent
Gluconic acid	E574	acidity regulator
Glucono-delta-lactone	E575	sequestrant, acidity regulator
Sodium gluconate	E576	sequestrant
Potassium gluconate	E577	sequestrant
Calcium gluconate	E578	firming agent
Ferrous gluconate	E579	food colouring
Magnesium gluconate	E580	
Polyvinylpyrrolidone	E1201	stabiliser
Polyvinylpolypyrrolidone	E1202	stabiliser
Polyvinyl alcohol	E1203	
Triethyl citrate	E1505	foam stabiliser
Magnesium sulphat, Epsom salts	E518	acidity regulator, firming agent
Sodium hydroxide	E524	acidity regulator
Potassium hydroxide	E525	acidity regulator
Calcium hydroxide	E526	acidity regulator, firming agent
Ammonium hydroxide	E527	acidity regulator
Magnesium hydroxide	E528	acidity regulator
Calcium oxide	E529	acidity regulator, improving agent

AMINOACIDS

NAME	E-NUM	FUNCTION
L-Alanine		
L-Arginine		
L-Cysteine HCl		
Glycine		
L-Glutamic Acid		
L-Glutamine		
L-Isoleucine		
L-Leucine		
L-Lysine HCl		
L-Lysine Acetate		
DL-Methionine		
L-Methionine		
L-Tyrosine		
L-Threonine		
L-Tryptophan		
L-Valine		



NUTRACEUTICALS

NAME	E-NUM	FUNCTION
Chitosan		fat binder
Chondroitin sulphate		treatment of osteoarthritis
Co Enzyme Q10		antioxidant
Creatin Monohydrat		supplement to gain muscle mass
D-Glucosamine Hydrochloride		treatment of osteoarthritis
D-Glucosamine sulphate		treatment of osteoarthritis
L-Carnitin		prevent cardiovascular and muscle diseases

FILTER AIDS

NAME	E-NUM	FUNCTION
Diatomite (Diatomaceous earth)		
Perlite		
Wood cellulose		

OTHERS

NAME	E-NUM	FUNCTION
Active carbon		
Caffeine		stimulant
MCT-oil (Medium-chain triglycerides)		flavour solvent
Taurine		stimulant



RAW MATERIALS



Pharmaceuticals



Food & Feed



Cosmetics



Detergents



Flavours & Fragrances



Paints feedstock



Textiles & Leather



Metal treatment



Water treatment



Reagents



Rubber and Plastics



Base Chemicals



MAINTENANCE SYSTEMS



Personal Protection Equipment
and Safety Courses



Maintenance Products and
Detergents



Special Waste Collection



Lubricants



Surface Treatment



Tools and Machinery



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